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PATENT  
Attorney Docket No.: 02307V-137300US  
Client Reference No.: B03-090

On January 12, 2005

TOWNSEND and TOWNSEND and CREW LLP

By:   
Anna C. Kundel

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

ALEXIS T. BELL, et. al.

Application No.: 10/627,254

Filed: July 24, 2003

For: PROCESS FOR PRODUCTION OF  
ACETYL ANHYDRIDES AND  
OPTIONALLY ACETIC ACID FROM  
METHANE AND CARBON DIOXIDE

Examiner: Zucker

Art Unit: 1621

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The references cited on attached form PTO/SB/08A and PTO/SB/08B are being called to the attention of the Examiner. Copies of the references are enclosed.

It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

01/19/2005 ZJUHR1 00000036 201430 10627254

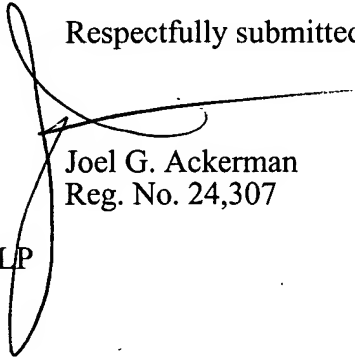
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As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information.

This IDS is being filed before the mailing date of the final Office Action or Notice of Allowance.

Please charge the IDS fee of \$180 to Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

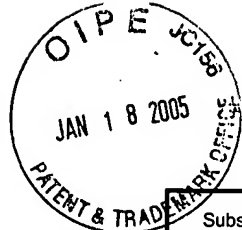
Respectfully submitted,



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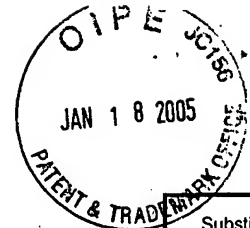
Substitute for form 1449B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	10/627,254	
			Filing Date	July 24, 2003	
			First Named Inventor	Bell, Alexis T.	
			Art Unit	1621	
			Examiner Name	Zucker	
			Attorney Docket Number	02307V-137300US	
Sheet	2	of	2		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AK	ASADULLAH, M., et al., "Cobalt catalyzed carboxylation reaction of saturated hydrocarbons with CO in the presence of K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> and TFA under mild conditions," <u>Tetrahedron Letters</u> , 1999, pp. 8867-8871, Vol. 40.	
	AL	ASADULLAH, M., et al., "Calcium-Catalyzed Selective and Quantitative Transformation of CH <sub>4</sub> and CO into Acetic Acid" <u>Angew. Chem. Int. Ed.</u> , 2000, pp. 2475-2478, Vol. 39, No. 14.	
	AM	BAGNO, A., et al., "Superacid-Catalyzed Carbonylation of Methane, Methyl Halides, Methyl Alcohol, and Dimethyl Ether to Methyl Acetate and Acetic Acid," <u>J. Organic Chem.</u> , 1990, pp. 4284-4289, Vol. 55.	
	AN	CHEPAIKIN, E., et al., "Functionalisation of methane under dioxygen and carbon monoxide catalyzed by rhodium complexes oxidation and oxidative carbonylation," <u>Journal of Molecular Catalysis A: Chemical</u> , 2001, pp. 89-98, Vol. 169.	
	AO	FUJIWARA, Y., et al., "Transition metal catalyzed acetic acid synthesis from methane and carbon monoxide," <u>Studies in Surface Science and Catalysis</u> , 1998, pp. 349-353, Vol. 119.	
	AP	JACKMAN, L.M., et al., "Synthesis of Transition-Metal Carboxylato Complexes <sup>1,2</sup> ," <u>Inorganic Chemistry</u> , 1979, pp. 1497-1502, Vol. 18, No. 6.	
	AQ	KURIOKA, M., et al., "Palladium-Catalyzed Acetic Acid Synthesis from Methane and Carbon Monoxide or Dioxide," <u>Chemistry Letters</u> , 1995, p. 244	
	AR	LIN, M., et al., "Direct catalytic conversion of methane to acetic acid in aqueous medium," <u>Nature</u> , April 1994, pp. 613-615, Vol. 368.	
	AS	NAKATA, K., et al., "Palladium (II) and/or copper (II)-catalyzed carboxylation of small alkanes such as methane and ethane with carbon monoxide," <u>Journal of Organometallic Chemistry</u> , 1994, pp. 329-334, Vol. 473.	
	AT	NISHIGUCHI, T., et al., "Transition Metal Catalyzed Acetic Acid Synthesis from Methane and CO," <u>Chemistry Letters</u> , 1992, pp. 1141-1142.	
	AU	NIZOVA, G., et al., "Carboxylation of methane with CO or CO <sub>2</sub> in aqueous solution catalysed by vanadium complexes," <u>Chem. Commun.</u> , 1998, pp. 1885-1886.	
	AV	PIAO, D-G., et al., "An efficient partial oxidation of methane in trifluoroacetic acid using vanadium-containing heteropolyacid catalysts," <u>Journal of Organometallic Chemistry</u> , 1999, pp. 116-120, Vol. 574.	
	AW	REIS, P., et al., "Single-Pot Conversion of Methane into Acetic Acid in the Absence of CO and with Vanadium Catalysts Such as Amavadine," <u>Angew. Chem. Int. Ed.</u> , 2003, pp. 821-823, Vol. 42, No. 7.	
	AX	TANIGUCHI, Y., et al., "Advances in Chemical Conversions for Mitigating Carbon Dioxide," <u>Studies in Surface Science and Catalysis</u> , 1998, pp. 439-442, Vol. 114.	
	AY	TANIGUCHI, Y., et al., "Highly Efficient Vanadium-Catalyzed Transformation of CH <sub>4</sub> and CO to Acetic Acid," <u>Organic Letters</u> , 1999, pp. 557-559, Vol. 1, No. 4.	
	AZ	WILCOX, et al., "Letter to the Editor: Thermodynamics of light alkane carboxylation," <u>Applied Catalysis A: General</u> , 2002, pp. 317-318, Vol. 226.	

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



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	BA	WILCOX, et al., "Direct Synthesis of Acetic Acid from Methane and Carbon Dioxide," <u>Studies in Surface Science and Catalysis</u> , 2001, pp. 259-264, Vol. 136.	
	BB	YIN, G., et al., "CU(OAc) <sub>2</sub> -catalyzed partial oxidation of methane to methyl trifluoroacetate in the liquid phase," <u>Applied Organometallic Chemistry</u> , 2000, pp. 438-442, Vol. 14.	
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